

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P641183

Luminaire Tested: GWS-SA5F-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24452.8 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

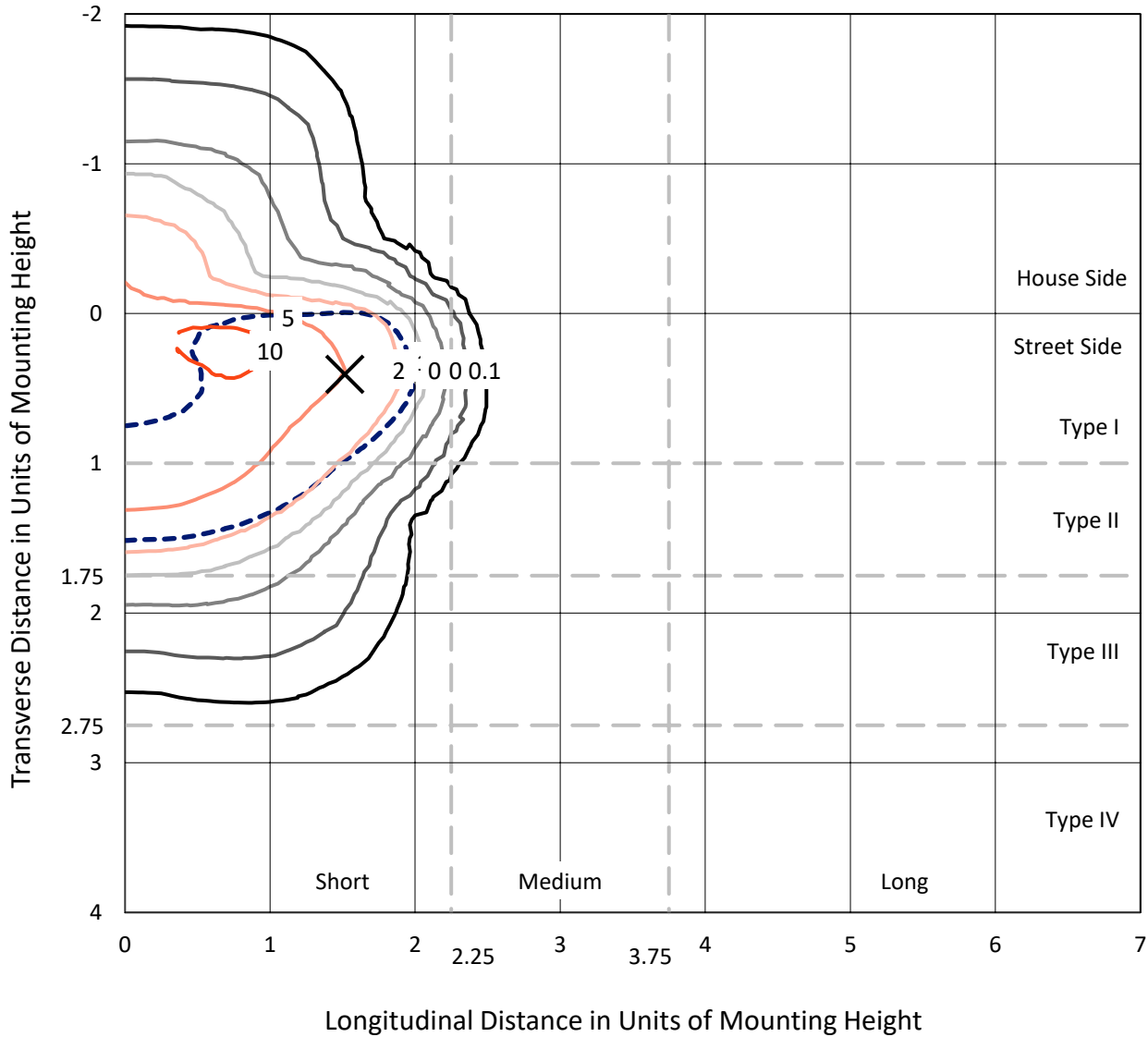
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

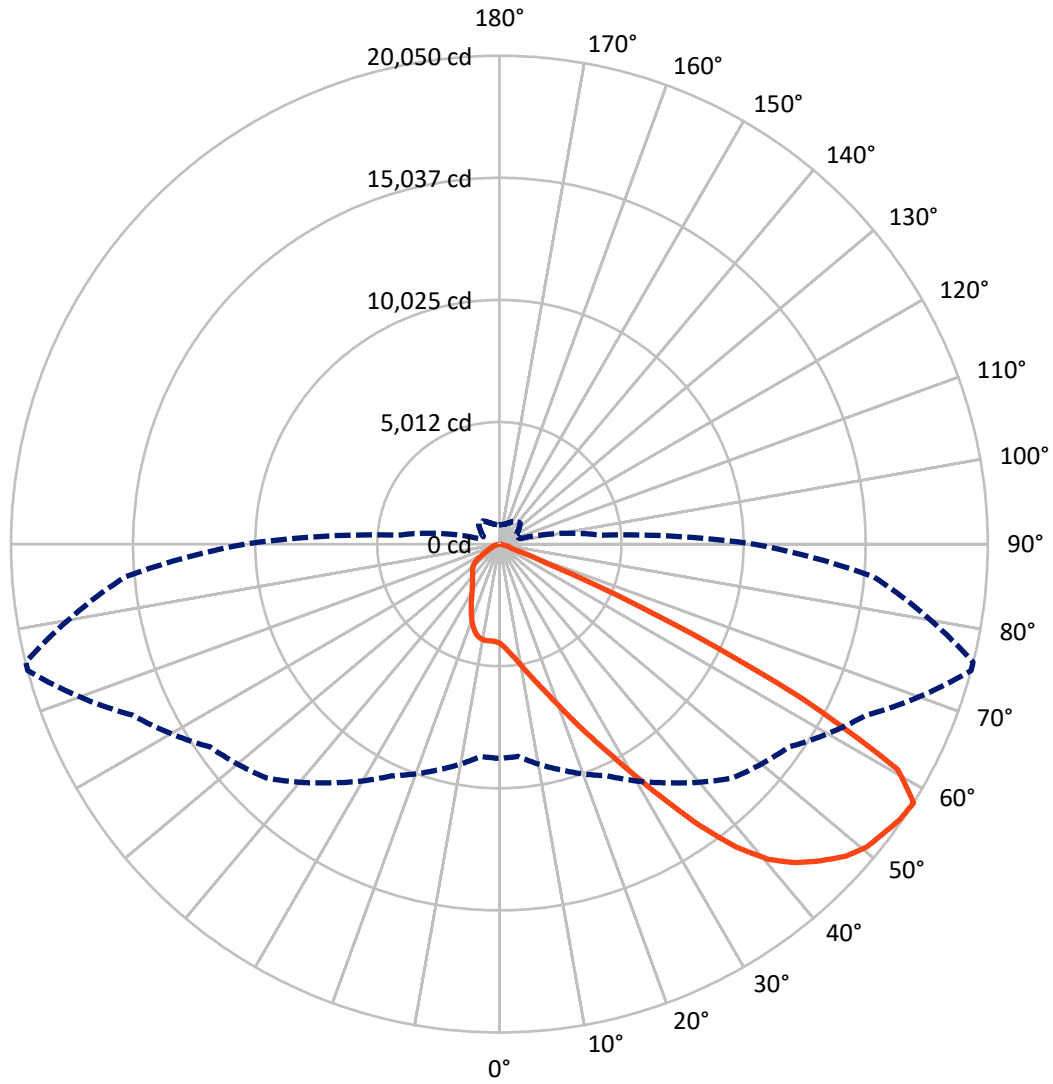
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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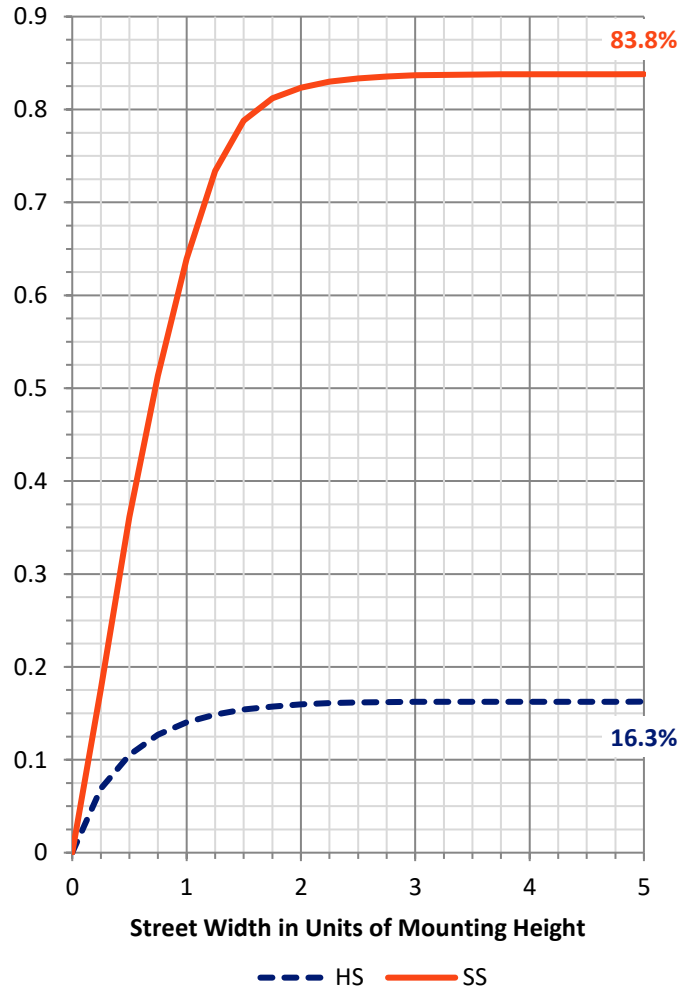
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3994.3	0.0	3994.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	20458.5	0.0	20458.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	24452.8	0.0	24452.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.0	1.7
10°-20°	1348.1	5.5
20°-30°	2468.7	10.1
30°-40°	4095.9	16.8
40°-50°	6255.4	25.6
50°-60°	7029.0	28.7
60°-70°	2592.6	10.6
70°-80°	247.8	1.0
80°-90°	0.2	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24452.8	100.0
0°-180°	24452.8	100.0

Coefficient of Utilization



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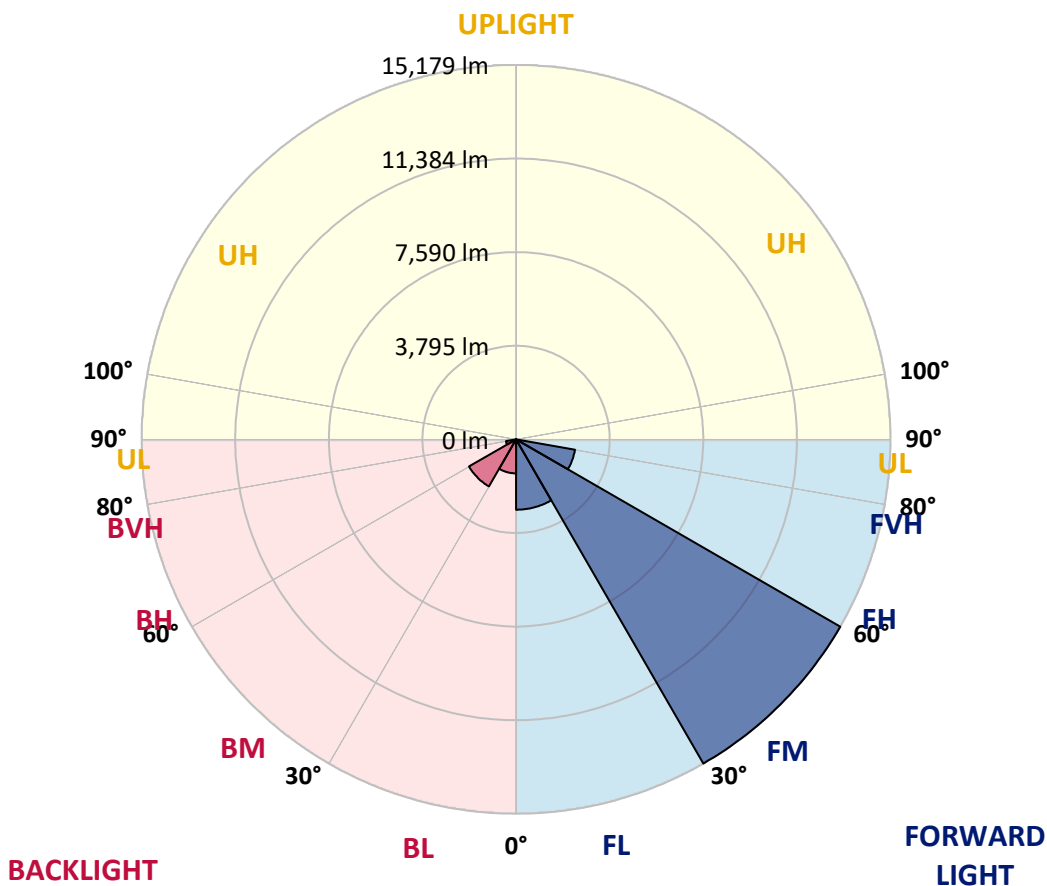
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2853.6	11.7			
FM (30°-60°)	15179.2	62.1			
FH (60°-80°)	2425.6	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1378.3	5.6	B3/2500		
BM (30°-60°)	2201.1	9.0	B2/2500		
BH (60°-80°)	414.8	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4
2.5°	4556.5	4603.7	4588.9	4559.4	4541.7	4479.7	4441.4	4329.2	4249.5	4240.7	4166.9
5°	5131.9	5123.1	5111.3	5075.9	5046.3	4949.0	4833.9	4645.0	4476.8	4456.1	4299.7
7.5°	5447.7	5453.6	5459.5	5453.6	5432.9	5359.2	5232.3	5010.9	4754.2	4736.5	4488.6
10°	5577.5	5589.3	5618.8	5674.9	5725.1	5719.2	5645.4	5418.2	5102.4	5072.9	4739.4
12.5°	5639.5	5654.3	5701.5	5807.7	5943.5	6049.7	6061.5	5857.9	5509.7	5462.4	5037.5
15°	5725.1	5739.8	5798.9	5937.6	6135.3	6344.8	6480.6	6350.7	5961.2	5911.0	5365.1
17.5°	5763.5	5784.1	5869.7	6052.7	6309.4	6631.1	6938.0	6926.2	6495.3	6457.0	5745.7
20°	5837.2	5852.0	5928.7	6126.4	6436.3	6899.6	7416.1	7602.0	7147.5	7091.4	6206.1
22.5°	6070.4	6076.3	6111.7	6235.6	6524.8	7094.4	7903.0	8389.9	7917.7	7844.0	6722.6
25°	6451.1	6448.1	6462.9	6483.5	6696.0	7292.1	8372.2	9278.2	8800.1	8720.4	7306.9
27.5°	6935.0	6935.0	6970.4	6911.4	6997.0	7537.0	8835.5	10299.3	9827.1	9714.9	7947.2
30°	7504.6	7501.6	7584.3	7489.8	7516.4	7923.6	9334.3	11411.8	11066.5	10927.8	8685.0
32.5°	8277.8	8260.1	8354.5	8224.6	8136.1	8508.0	9942.2	12574.5	12550.9	12338.4	9611.7
35°	9254.6	9225.1	9254.6	9127.7	8968.3	9325.4	10739.0	13734.3	14197.6	13973.3	10715.4
37.5°	10225.5	10319.9	10352.4	10134.0	10004.1	10361.2	11698.1	14773.1	15770.5	15537.4	11863.3
40°	11370.5	11341.0	11453.1	11208.2	11125.6	11521.0	12636.5	15546.3	17015.9	16794.6	12884.4
42.5°	12214.5	12267.6	12406.3	12270.6	12205.6	12577.5	13424.4	15997.8	17880.6	17662.2	13613.3
45°	13226.7	13265.1	13318.2	13206.1	13138.2	13504.1	13994.0	16195.5	18538.7	18302.6	14103.2
47.5°	14321.6	14351.1	14351.1	14120.9	13902.5	14053.0	14374.7	16307.6	19143.6	18916.4	14466.2
50°	15106.6	15121.3	15251.2	15088.9	14613.7	14380.6	14548.8	16416.8	19545.0	19332.5	14584.2
52.5°	14410.1	14392.4	14820.3	15156.7	15283.6	14820.3	14849.8	16576.2	19739.7	19556.8	14678.7
55°	12134.8	12105.3	12707.3	13524.8	14643.2	15236.4	15212.8	16670.6	19955.2	19843.0	15021.0
57.5°	8797.2	8747.0	9585.1	10494.0	11960.7	13569.0	14513.4	16617.5	20049.6	20040.8	15419.4
60°	5288.3	5247.0	6037.9	6994.0	8127.3	9744.5	11311.5	14885.2	18786.5	18804.3	14383.5
62.5°	3255.0	3293.4	4007.6	4494.5	4916.5	5403.4	6309.4	10013.0	13917.3	14032.4	10107.4
65°	2189.7	2219.2	2880.2	3494.1	3494.1	2856.6	2452.3	4786.6	7424.9	7230.1	4780.7
67.5°	1469.6	1502.1	2024.4	2741.5	2844.8	1992.0	994.5	1428.3	2068.7	2006.7	1183.4
70°	864.7	900.1	1348.6	1879.8	2071.7	1387.0	664.0	605.0	587.3	569.6	460.4
72.5°	386.6	401.3	687.6	956.1	873.5	584.3	469.2	484.0	457.4	448.6	374.8
75°	118.0	123.9	177.1	206.6	209.5	209.5	283.3	380.7	360.0	363.0	289.2
77.5°	29.5	29.5	47.2	44.3	23.6	20.7	53.1	85.6	88.5	79.7	59.0
80°	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4	4078.4
2.5°	4134.5	4057.7	4007.6	3936.7	3886.6	3833.4	3786.2	3747.9	3727.2	3721.3	3724.3
5°	4228.9	4107.9	3989.9	3854.1	3759.7	3671.1	3600.3	3544.2	3517.7	3508.8	3508.8
7.5°	4373.5	4205.3	3995.8	3783.3	3623.9	3485.2	3402.6	3340.6	3317.0	3311.1	3293.4
10°	4562.4	4332.2	3986.9	3656.4	3432.1	3287.5	3228.5	3210.8	3219.6	3222.6	3219.6
12.5°	4789.6	4465.0	3930.8	3470.5	3228.5	3139.9	3145.8	3193.1	3246.2	3272.7	3278.6
15°	5031.6	4586.0	3803.9	3249.1	3054.4	3051.4	3137.0	3246.2	3349.5	3393.7	3405.5
17.5°	5303.1	4683.4	3609.2	3013.0	2903.9	2989.4	3142.9	3311.1	3449.8	3523.6	3538.3
20°	5601.1	4763.0	3361.3	2791.7	2771.1	2924.5	3137.0	3343.6	3514.7	3597.4	3612.1
22.5°	5911.0	4819.1	3075.0	2588.1	2650.1	2850.7	3080.9	3281.6	3443.9	3538.3	3550.1
25°	6265.1	4825.0	2782.9	2416.9	2537.9	2750.4	2945.2	3110.4	3246.2	3328.8	3337.7
27.5°	6575.0	4754.2	2523.2	2278.2	2434.6	2626.5	2756.3	2847.8	2942.2	2989.4	2992.4
30°	6932.1	4630.2	2278.2	2166.1	2328.4	2473.0	2537.9	2558.6	2567.4	2576.3	2564.5
32.5°	7357.0	4479.7	2095.3	2056.9	2207.4	2304.8	2322.5	2281.2	2231.0	2160.2	2142.5
35°	7879.4	4344.0	1944.8	1950.7	2074.6	2133.6	2118.9	2030.3	1933.0	1847.4	1832.6
37.5°	8446.0	4228.9	1829.7	1847.4	1930.0	1971.3	1927.1	1829.7	1785.4	1711.6	1714.6
40°	8947.7	4134.5	1726.4	1744.1	1782.4	1820.8	1750.0	1685.1	1767.7	1761.8	1767.7
42.5°	9304.7	4054.8	1637.8	1629.0	1655.6	1682.1	1629.0	1596.5	1735.2	1696.9	1717.5
45°	9514.3	3981.0	1564.1	1511.0	1552.3	1599.5	1564.1	1522.8	1570.0	1392.9	1378.2
47.5°	9655.9	3939.7	1499.1	1395.9	1469.6	1552.3	1478.5	1378.2	1310.3	1156.8	1145.0
50°	9670.7	3919.0	1422.4	1277.8	1372.3	1460.8	1375.2	1236.5	1139.1	1071.2	1062.4
52.5°	9747.4	3960.3	1316.2	1127.3	1230.6	1372.3	1313.2	1174.5	1041.7	982.7	970.9
55°	10089.7	4134.5	1139.1	920.7	1071.2	1304.4	1263.1	1047.6	920.7	885.3	876.5
57.5°	10443.9	4169.9	897.1	728.9	932.5	1207.0	1153.9	965.0	841.1	799.7	790.9
60°	9549.7	3435.1	672.8	602.0	823.4	1115.5	1068.3	914.8	770.2	720.1	711.2
62.5°	6274.0	1856.2	534.1	510.5	693.5	944.3	973.9	826.3	687.6	634.5	631.5
65°	2892.1	861.7	410.2	404.3	543.0	752.5	838.1	723.0	581.4	534.1	534.1
67.5°	787.9	427.9	321.7	298.1	368.9	504.6	610.9	540.0	413.2	357.1	354.1
70°	392.5	345.3	289.2	256.7	265.6	312.8	360.0	301.0	209.5	171.2	168.2
72.5°	321.7	283.3	244.9	218.4	200.7	191.8	185.9	150.5	97.4	73.8	70.8
75°	239.0	203.6	174.1	141.7	121.0	112.1	100.3	73.8	41.3	23.6	20.7
77.5°	53.1	50.2	47.2	35.4	32.5	26.6	20.7	14.8	5.9	0.0	0.0
80°	3.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)